FIGURE: 1

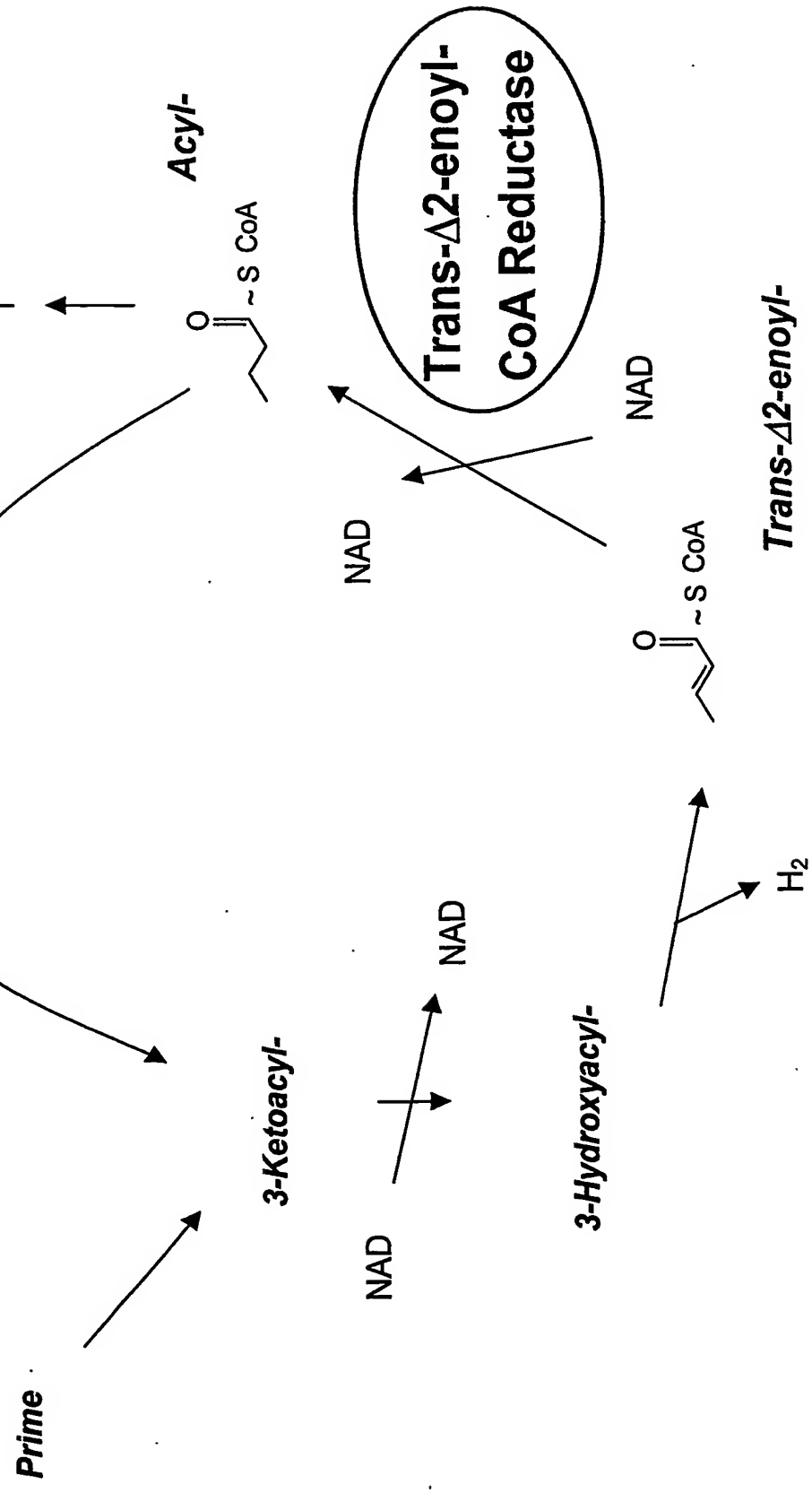

Fatty
Acyl-
~ S CoA
Trans-Δ2-enoyl-
CoA Reductase
NAD
NAD
Trans-Δ2-enoyl-
~ S CoA
Acetyl -
3-Ketoacyl-
NAD
NAD
3-Hydroxyacyl-
H2
Prime

**FIGURE: 2**

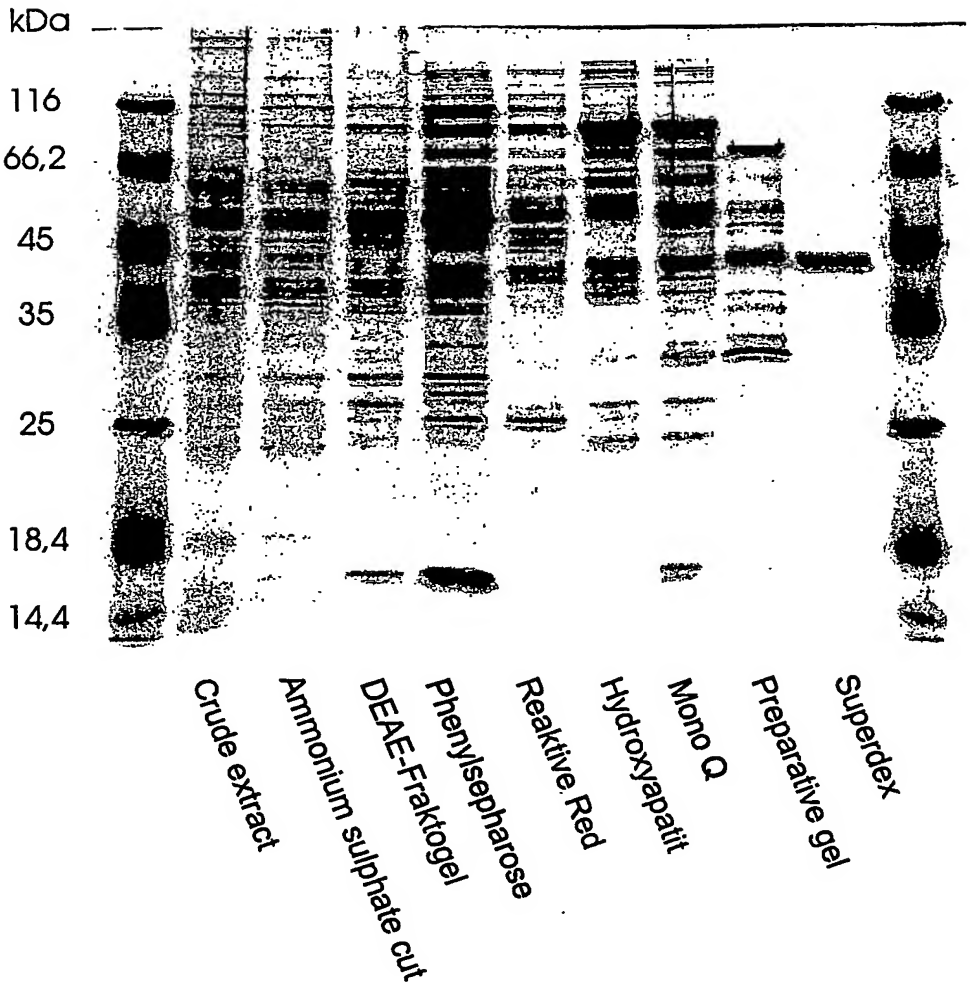

kDa
116
66,2
45
35
25
18,4
14,4
Crude extract
Ammonium sulphate cut
DEAE-Fraktogel
Phenylsepharose
Reaktive Red
Hydroxyapatit
Mono Q
Preparative gel
Superdex

FIGURE: 3

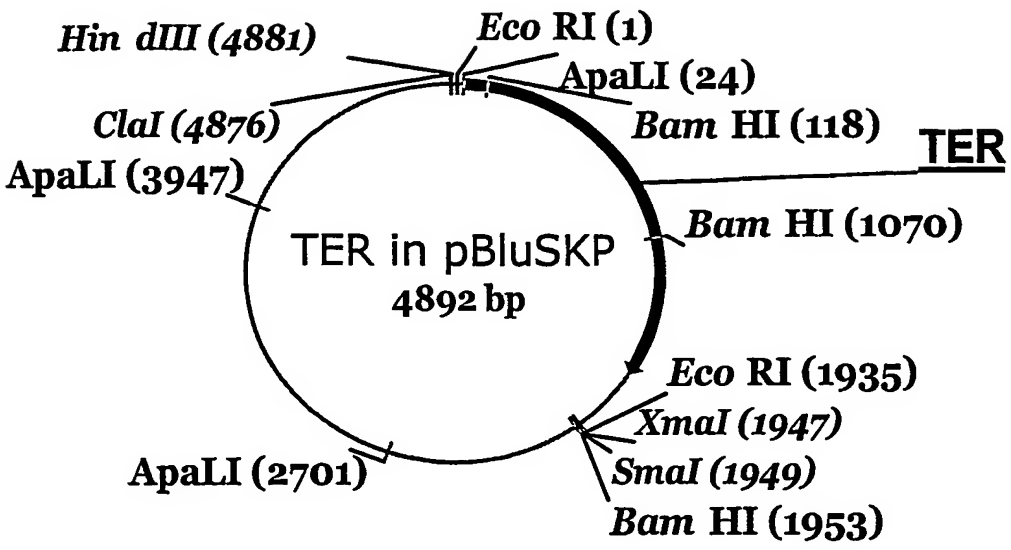

Hin dIII (4881)
Eco RI (1)
ApaLI (24)
ClaI (4876)
Bam HI (118)
TER
ApaLI (3947)
TER in pBluSKP
4892 bp
Bam HI (1070)
Eco RI (1935)
XmaI (1947)
ApaLI (2701)
SmaI (1949)
Bam HI (1953)

FIGURE: 4

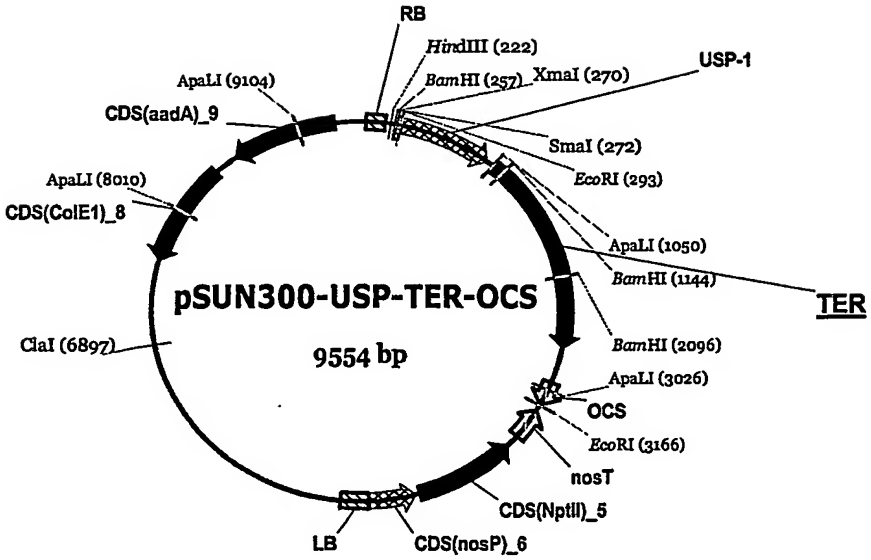

RB
HindIII (222)
BamHI (257)
XmaI (270)
USP-1
SmaI (272)
EcoRI (293)
ApaLI (1050)
BamHI (1144)
TER
BamHI (2096)
ApaLI (3026)
OCS
EcoRI (3166)
nosT
CDS(NptII)_5
CDS(nosP)_6
LB
ClaI (6897)
ApaLI (8010)
CDS(ColE1)_8
ApaLI (9104)
CDS(aadA)_9
pSUN300-USP-TER-OCS
9554 bp

**FIGURE: 5**

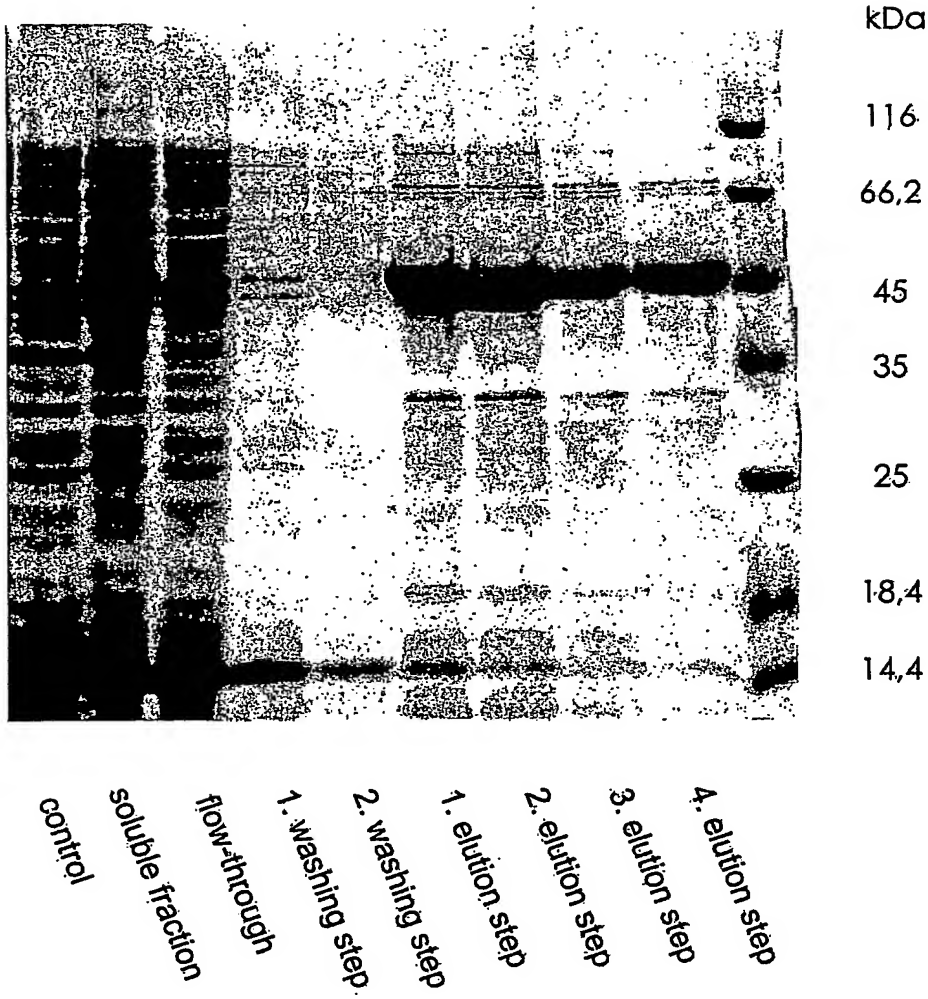

kDa
116
66,2
45
35
25
18,4
14,4
control
soluble fraction
flow-through
1. washing step
2. washing step
1. elution step
2. elution step
3. elution step
4. elution step

**FIGURE: 6**

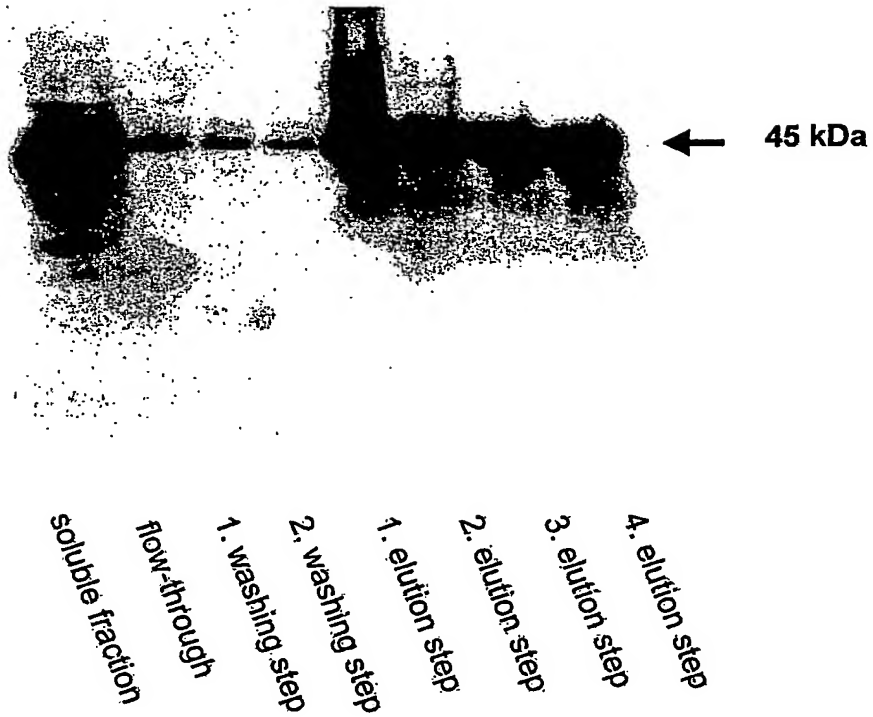
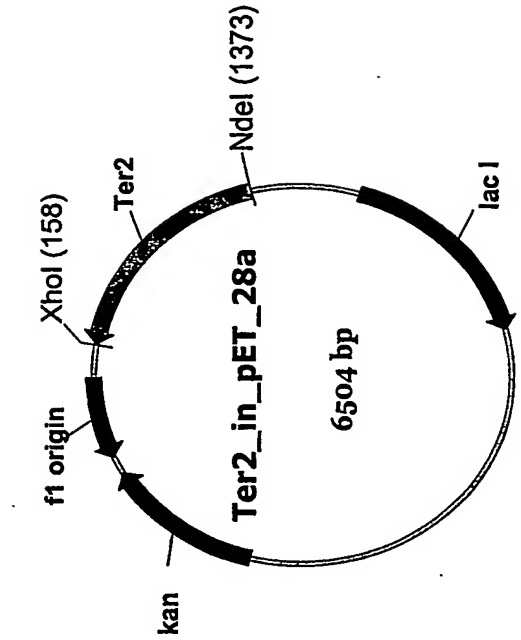
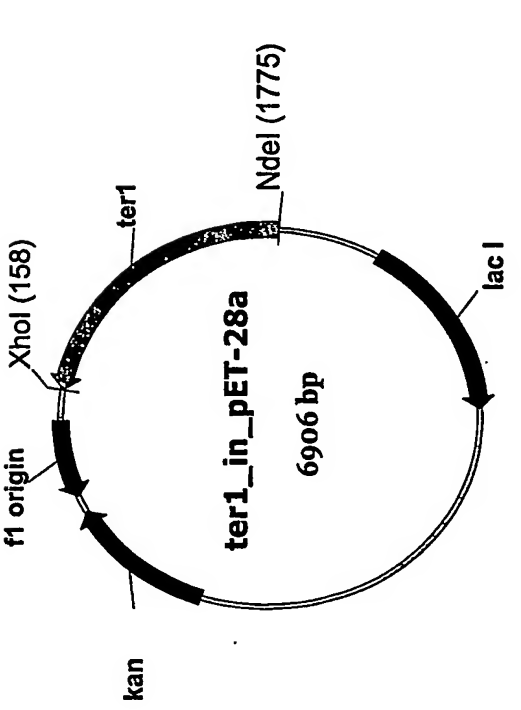

45 kDa
soluble fraction
flow-through
1. washing step
2. washing step
1. elution step
2. elution step
3. elution step
4. elution step

FIGURE: 7


NdeI (1373)
Ter2
XhoI (158)
lac I
f1 origin
Ter2_in_pET_28a
6504 bp
kan


NdeI (1775)
ter1
XhoI (158)
lac I
f1 origin
ter1_in_pET-28a
6906 bp
kan

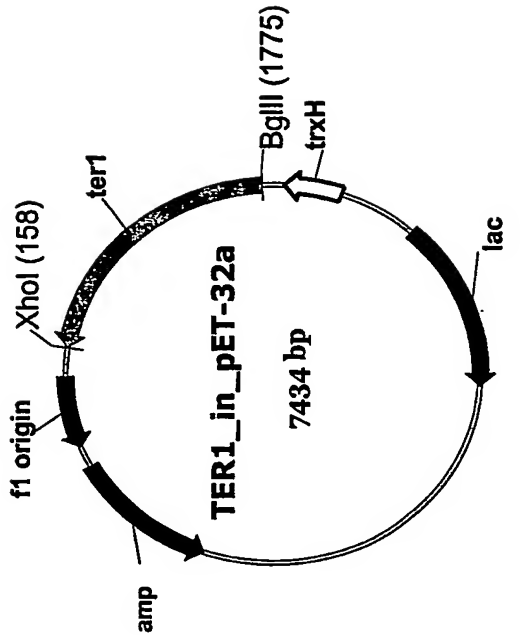

BglII (1775)
trxH
ter1
XhoI (158)
lac
f1 origin
TER1_in_pET-32a
7434 bp
amp

**FIGURE: 8**

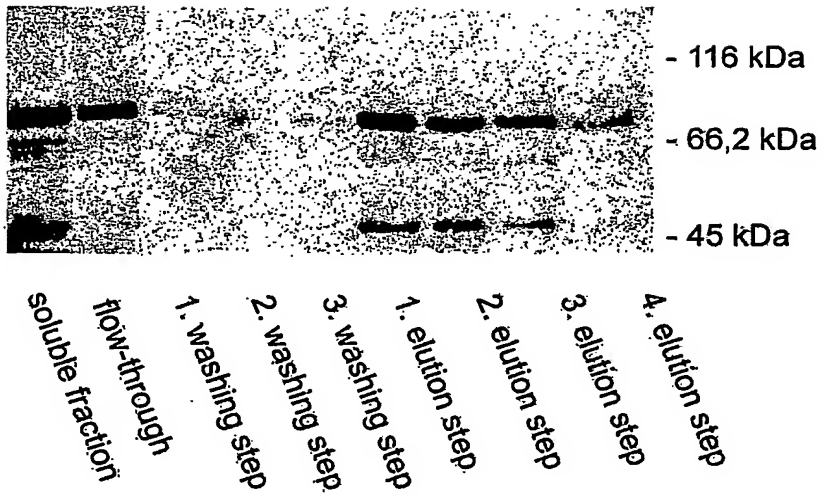

- 116 kDa
- 66,2 kDa
- 45 kDa
soluble fraction
flow-through
1. washing step
2. washing step
3. washing step
1. elution step
2. elution step
3. elution step
4. elution step

FIGURE: 9

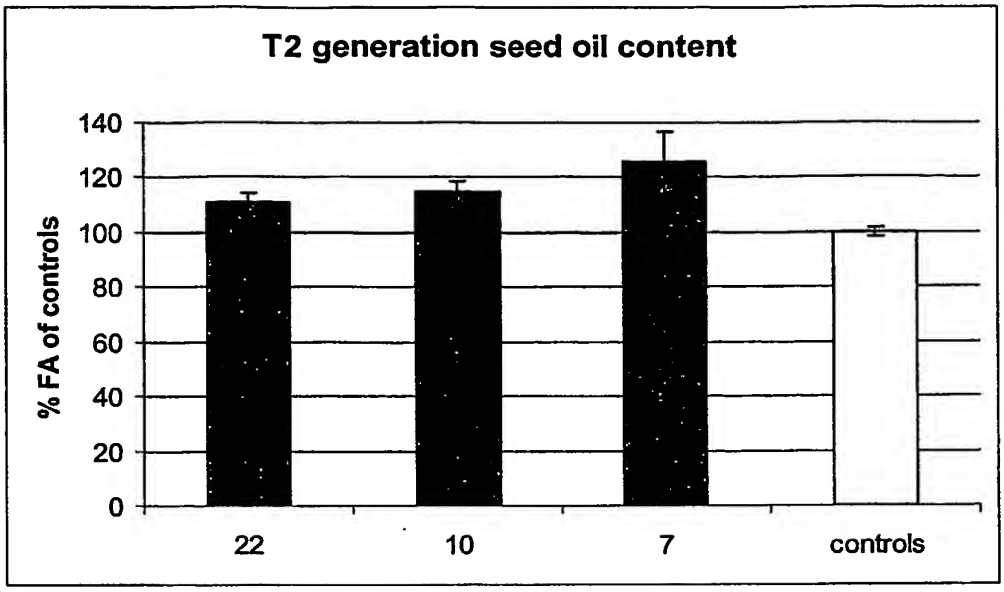
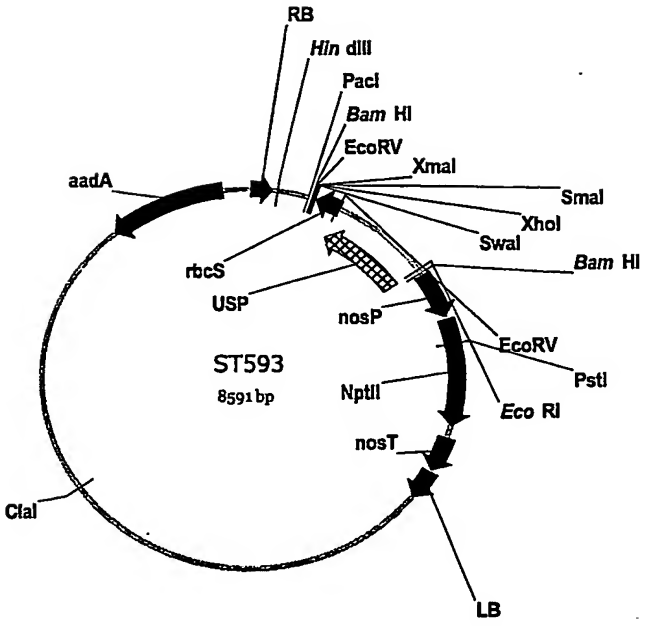

T2 generation seed oil content
% FA of controls
140
120
100
80
60
40
20
0
22
10
7
controls

FIGURE: 10


RB
Hin dIII
PacI
Bam HI
EcoRV
XmaI
SmaI
XhoI
SwaI
Bam HI
aadA
rbcS
USP
nosP
EcoRV
PstI
ST593
8591 bp
NptII
Eco RI
nosT
ClaI
LB